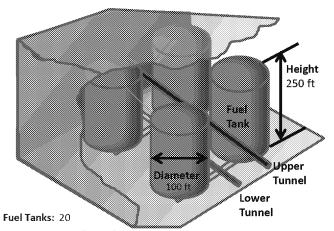
Red Hill Facility

History

- 20 vertical cylindrical tanks (250 feet x 100 feet each)
- "Field-Constructed" underground from 1940 to 1943
- Tank capacity = 12.5 million gallons each
- Welded steel plates backed by 2.5 -4 feet of reinforced concrete supported by basalt rock
- National Historic Civil Engineering Landmark (1995)
- Located three miles uphill from Pearl Harbor
- Nearest drinking water source approx. 3,000 feet from facility (Navy Red Hill water shaft)

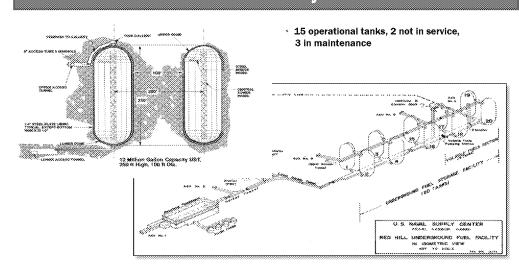


Capacity: 250 million gals

Length of Tunnels: 7.13 miles

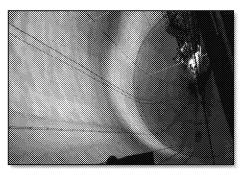
Miles From Pearl Harbor to Red Hill Facility: \sim 3 Miles Depth from ground surface to top of tank: 110 to 175 feet

Present Day

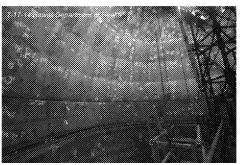


Current Tank Maintenance & Monitoring Practices

Leak Prevention



Interior view looking down into a fuel tank. (U.S. Navy photo)



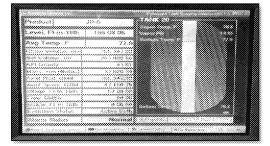
- * Tank Maintenance Procedures – Clean, Inspect and Repair methods based on American Petroleum Institute Method 653
- Conduct biennial tank tightness tests
- Actively monitor fuel levels in real-time by using Automated Fuel Handing Equipment
- Monitor inventory trends and conduct analysis

Interior of Tank 5 showing patch plate locations (Hawaii DOH Photo)

Release Detection

- Continuous measurement of fuel levels in tanks
- Monthly soil vapor monitoring
- Monthly oil/water interface testing
- Biennial tank tightness test

Automatic Tank Gauge used to monitor fuel tanks. (U.S. Navy photo)



Water Monitoring

Testing/Reporting the Water We Drink

Testing

- · Water from the Red Hill Shaft continues to remain safe to drink
- Navy regularly tests drinking water according to the Safe Drinking Water Act requirements and all results are sent to regulatory agencies for review/approval
- Samples are taken by trained personnel from locations approved by State
 Department of Health (DOH) Analysis performed by State DOH laboratory or offisland certified laboratories



Water sampling action. (U.S. Navy photo)



Consumer Confidence Reports

- Navy provides Water Quality Reports annually to consumers in accordance with EPA/DOH requirements
- Regulatory results and additional voluntary testing on the Red Hill Shaft water are included in the 2015 Water Quality Report for Joint Base Pearl Harbor-Hickam Water System
- All constituents requiring testing are below regulatory levels and drinking water remains safe for consumption

Monitoring the Red Hill Facility

